



1 TTTCCTCACTATAAAAGAAATAGAGAAGGAAGGGCTTCAGTGACCGGCTGCCTGGCTGACTTACAGCAGTCTGACAGGATC
 91 ATGGCTATGATGGAGGTCAGGGGGGACCCAGCTGGGACAGACCTGCTGCTGATCGTGATCTTACAGTCTCCTGCAGTCTCTCTGT
 1 MetAlaMetMetGluValGlnGlyGlyProSerLeuGlyGlnThrCysValLeuIleValIlePheThrValLeuLeuGlnSerLeuCys
 181 GTGGCTGTAACCTTACGCTGACTTTACCAACGAGCTGAAGCAGATGCAGGACAAGTACTCCAAAAGTGGCATTGCTTGTCTTAAAGAA
 31 ValAlaValThrTyrValTyrPheThrAsnGluLeuLysGlnMetGlnAspLysTyrSerLysSerGlyIleAlaCysPheLeuLysGlu
 271 GATGACAGTTATTGGGACCCCAATGACGAAGAGACTATGAACAGCCCTGCTGGCAAGTCAAGTGCACAACTCCGTCAGCTCGTTAGAAAG
 61 AspAspSerTryTrpAspProAsnAspGluGluSerMetAsnSerProCysTrpGlnValLysTrpGlnLeuArgGlnLeuValArgLys
 361 ATGATTTTGAGAACCTCTGAGGAAACCATTTCTACAGTTCAAGAAAAGCAACAAAATATTTCTCCCTAGTGAGAGAAAAGGTCCTCAG
 91 MetIleLeuArgThrSerGluGluThrIleSerThrValGlnGluLysGlnAsnIleSerProLeuValArgGluArgGlyProGln
 451 AGGTAGCAGCTCACATACTGGGACCAGAGGAAGAACACATTTGTTCTCCAACTCCAAAGAAATGAAAAGGCTCTGGGCGGCAAA
 121 ArgValAlaAlaHisIleThrGlyThrArgGlyArgSerAsnThrLeuSerSerProAsnSerLysAsnGluLysAlaLeuGlyArgLys
 541 ATAACTCTGGGAATCATCAAGGAGTGGGCTTTCCTGAGCAACTTGCACCTGAGGAATGGTCAACTGGTCATCCATGAAAAAGGG
 151 IleAsnSerTrpGluSerSerArgSerGlyHisSerPheLeuSerAsnLeuHisLeuArgAsnGlyGluLeuValIleHisGluLysGly
 631 TTTTACTACATCTATCCCAAAACATACCTTTCGATTTCAGGAGGAAAATAAAGAAAAACACAAAGACGACAAACAAATGGTCCAAATATTT
 181 PheTyrTyrIleTyrSerGlnThrTyrPheArgPheGlnGluGluIleLysGluAsnThrLysAsnAspLysGlnMetValGlnTyrIle
 721 TACAAATACACAAGTTATCCTGACCCCTATATTGTTGATGAAAAGTGCTAGAAAATAGTTGTTGGTCTAAAGATGCAGAAATATGGACTCTAT
 211 TyrLysTyrThrSerTyrProAspProIleLeuLeuMetLysSerAlaArgAsnSerCysTrpSerLysAspAlaGluTyrGlyLeuTyr
 811 TCCATCTATCAAGGGGAATATTTGAGCTTAAGGAAAAATGACAGAAATTTTCTTTCTGTAAACAAATGAGCACTTGATAGACATGGACCAT
 241 SerIleTyrGlnGlyGlyIlePheGluLeuLysGluAsnAspArgIlePheValSerValThrAsnGluHisLeuIleAspMetAspHis
 901 GAAGCCAGTTTTTTTCGGGGCCCTTTTGTAGTTGGCTAACCTGACCTGGAAAGAAAAAGCAATAACCTCAAAGTGAATTCAGTTTTCAGGAT
 271 GluAlaSerPhePheGlyAlaPheLeuValGlyStp
 991 GATACACTATGAAGATGTTTCAAAAAAATCTGACCAAAAAACAAACACAGAAA

FIG. 1A

41BBL	80	DPAGLLDLRQGMFAQLVAQ	-----B-----	-----B'-----	-----C-----
OX40L	52	VSH---RYPRIQSIKVQFT	-----NVLIDGHL	-----SMYSDPGLAGVSLTG	-----GLSYKEDTKELWA
CD27L	45	QQQLPLESLGWDVAELQLN	-----HTGPPQDPRL	-----F--ILTS--QKED-	-----IMKVQNN--SVILIN
CD30L	87	LCILKRAPPFKKSWAYLQVA	-----KHLNKTKL	-----YMQGGPALCRSEFLH	-----GPFLDKG--QLRTH
TNF	77	VRSSRTSPSDKPVVAHVAN	-----PQAEQQL	-----SMNKD-----	-----GILH--GVRYQDG--NLVHQ
LTb	77	EEPETDLSPLPAAHLLGA	-----PLKGQQL	-----QMLNRRAN--ALLAN--GVFLRDN--QLVVP	-----GMETTKEQ--AFILTS--GTQFSDA--EGLALP
LTa	52	PKMHLAHSILKPAAHLLGD	-----PSKQNSL	-----LMRANTDR--AFIQD--GFSLNN--SLVVP	-----QMAEKGY--TMSNN--LMTLENG--KQLTVK
CD40L	113	MQ--KGDQNPQIAAHVISE	-----ASSKTTSVL	-----EMEDTYGIV--VILTS--GVKXKKG--GLVTN	-----QMAEKGY--TMSNN--LMTLENG--KQLTVK
Apo1L	134	PSPPEKKELRKVAHLTK	-----SNSRSMPL	-----WESSRSGH--SELS--NLHLRNG--ELVTH	-----WESSRSGH--SELS--NLHLRNG--ELVTH
Apo2L	114	VRE---RGPQRVAHITGTRGRSNTLSSPNSKNEKALGRKINS	-----	-----	-----

41BBL	137	KAGMYVFFQLLELRVVAGECS	-----D-----	-----E-----	-----F-----
OX40L	97	CDGMYLILSLKGYE--SQE	-----GVSILALHLQPLRSAGAAALATVDLPPAS	-----	-----
CD27L	100	RDGMYVHIQVTLAICSSTTASRH	-----HPTTLAVGICSPAS	-----EP--LFQLKKVRSVN	-----
CD30L	135	FPGLYFLLQQLQLVQCP	-----NNSVDIKLELLINKHI	-----KQALVTVCES	-----
TNF	128	SEGLYLIYSQVLEFGGCGP	-----STHWLTHTSRIAVSY	-----QTKVNLISAISPCQRETP	-----
LTb	129	QDGLYVINCIVGRAPPGGDPQGRSMIT	-----RSSIIRAGAYGFGTPELILEGAEVTPVLDPARR	-----	-----
LTa	103	TSGMYFVYSQVWFSGKAYS PKAT	-----SSPLYLAHEVQLFSSQY	-----PFHVPLISSQKMVYPGL	-----
CD40L	165	RQGLYIYIAQVITFCNREA	-----SSQAPFIASCLKSPGR	-----FERILLRAANTHSSAK	-----
Apo1L	186	ETGLYFVYSKVVFRGQSC	-----NNLPLSHKVVYMRNSKY	-----PQDLVMEGKMMSYCTT	-----
Apo2L	178	EKGIFYIYISQTYFRFQEI KENTK	-----NDKQMVQYIKYTS--Y--PDPILIMKSARNCSWCKDA	-----	-----

41BBL	190	---SEARNSAFGFQGRILHLS--ACQRLGWHLHTEARARHAWQLTQATVGLG	-----G-----	-----H-----	-----I-----
OX40L	137	---SLMVASLTYKDK	-----VYLNVTDTNT--SLTDFHVNGGELILIHQNPGEFCVL	-----	-----
CD27L	149	---FHQGTIVSQRLTFLAR	-----GDILCTNLGTTL--LPSRNTD	-----ETFFGVQWVRP	-----
CD30L	180	---GMQTKHVYQNLSQLLDYLVQNTTISNVVDTFQYI	-----DTSTFFPLEN--VLSIFLYSNSD	-----	-----
TNF	184	GAEAKMYEPIYLGVEFQLEK	-----GDRLSAEINRPDVL	-----DFAESG	-----QVYFGLIAL
LTb	195	QGYGPIWYTSVCGFGLVQLRR	-----GERVYVNI SHPDMY--DFARG	-----KTFFGAVMVG	-----
LTa	160	---QEPMLHSTHGAFAQLTQ	-----GQCLSTHTDGIPHLVLSPT	-----VVFCAFAL	-----
CD40L	217	---PCGQQSILHCGVFELOP	-----CASVFVNVDPSQVSHGTC	-----FTSFGLLKL	-----
Apo1L	237	---QMWARSSTLCAVFNLT	-----ADHLMNVNSEL--SLVNFEEES	-----QTFFGLYKL	-----
Apo2L	236	---EYGLY--SLYQGGIFELKE	-----NDRI FVSATNE--HLLDMDHE	-----ASFFGAFLVG	-----

FIG. 1B

FIG. 3A

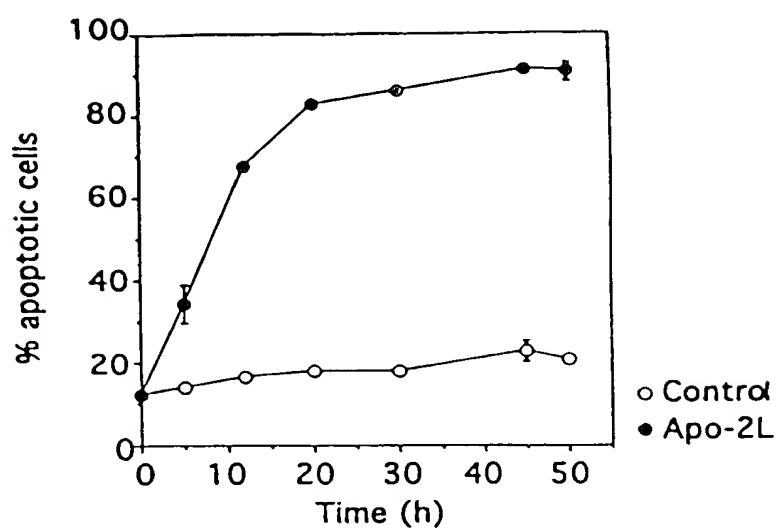


FIG. 3B

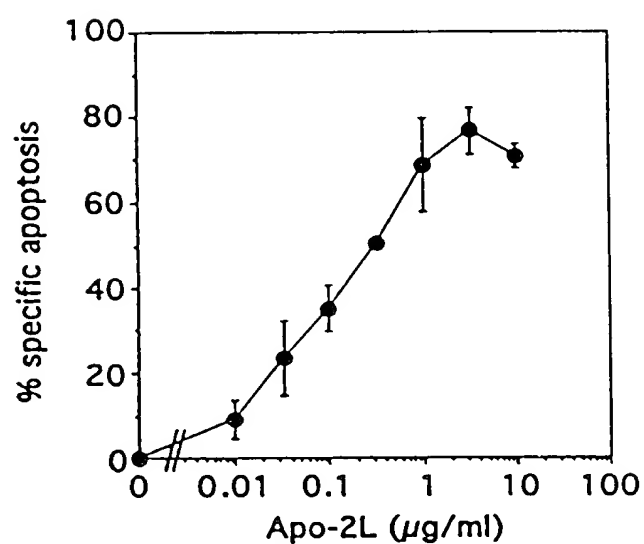
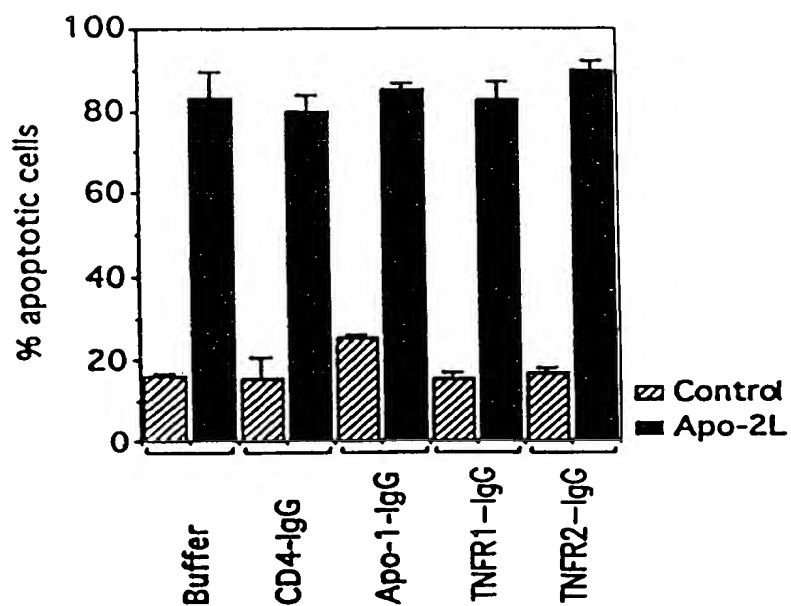


FIG. 3C



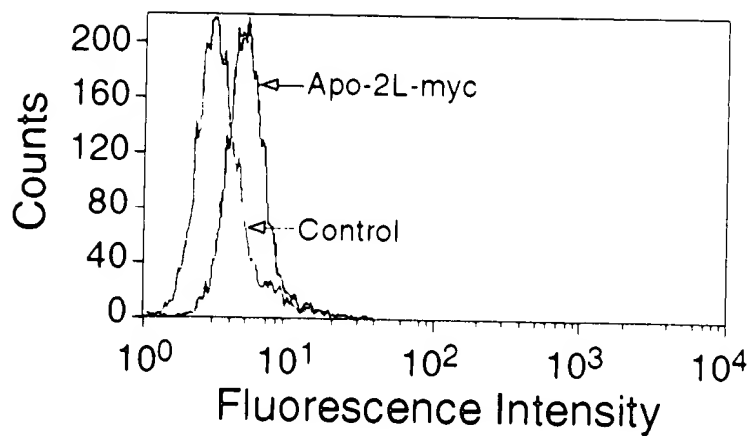


FIG. 1C

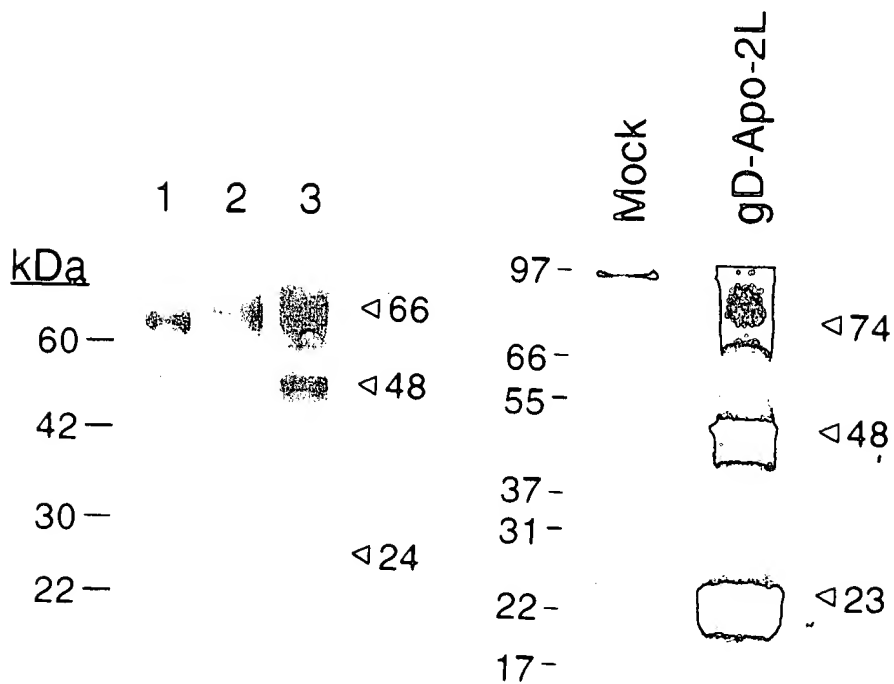
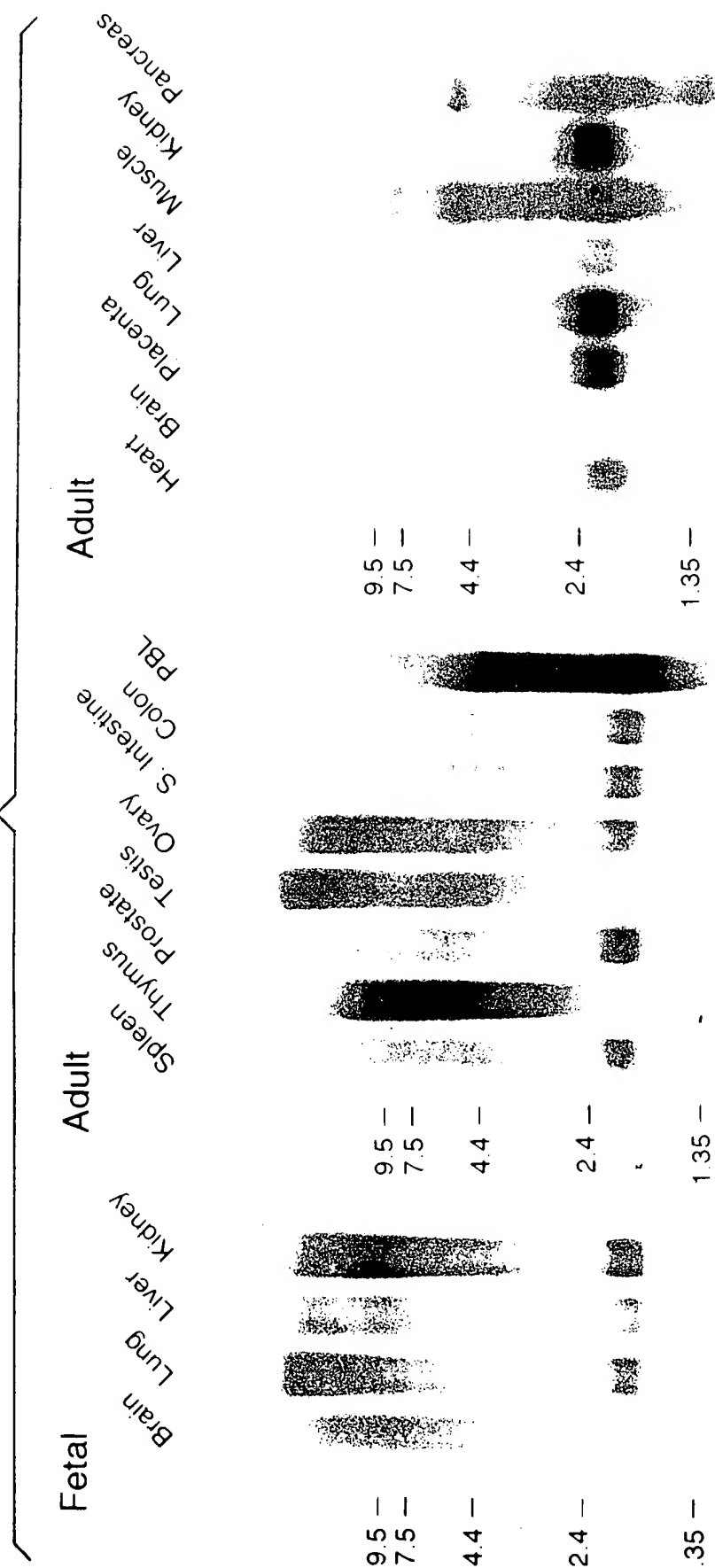


FIG. 1D

FIG. 1E

FIG. 4



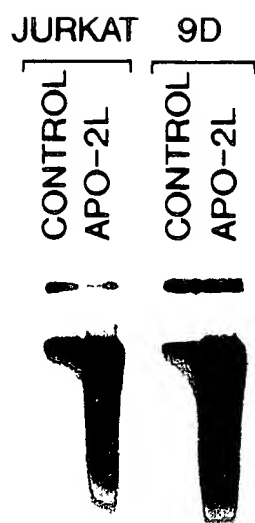


FIG. 2E

FIG. 2B

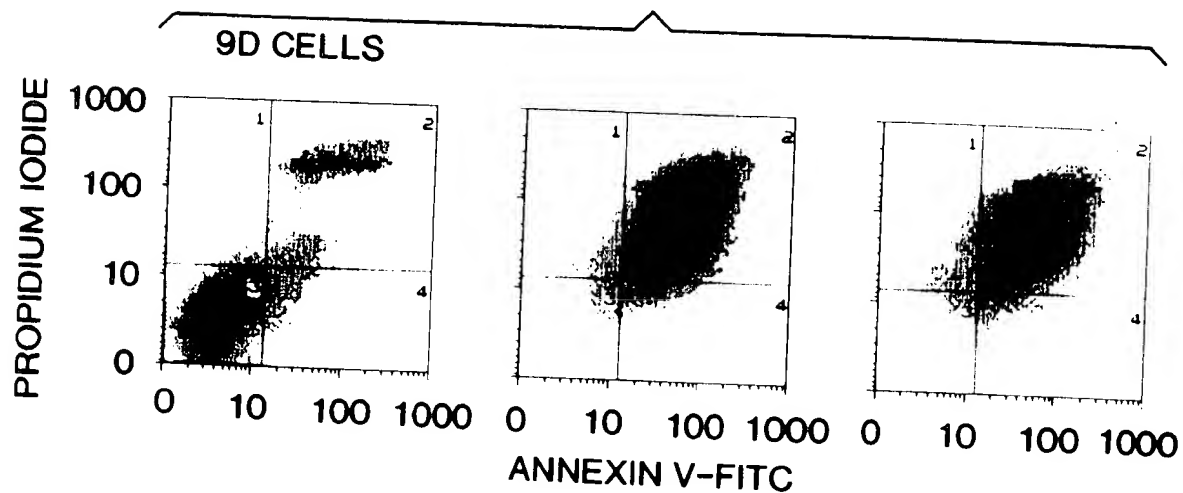


FIG. 2C

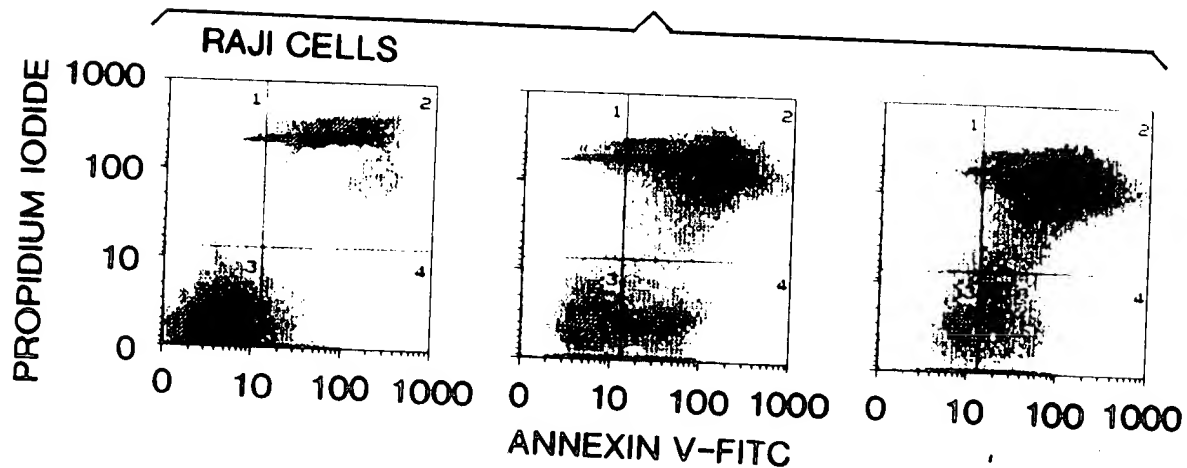
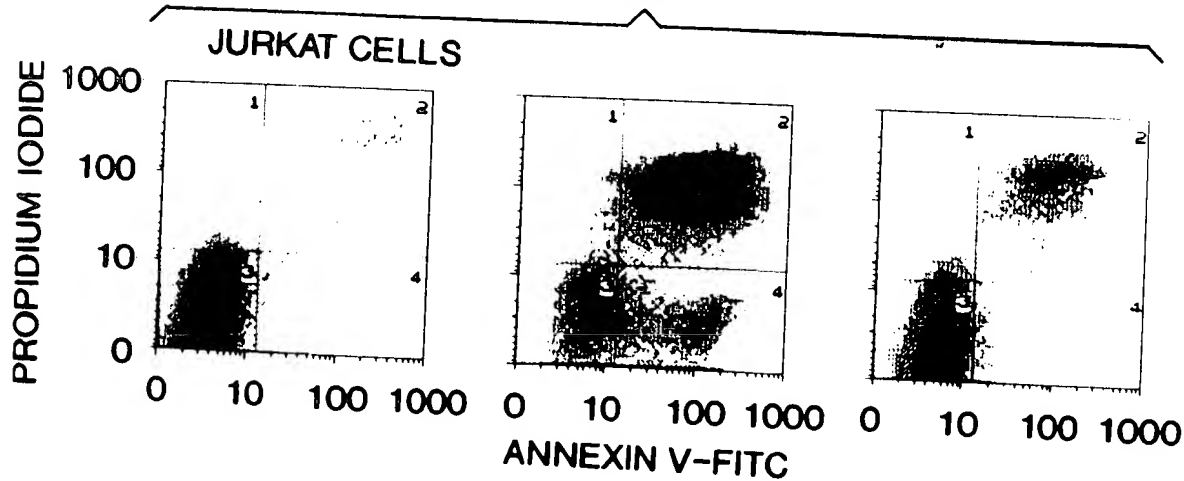


FIG. 2D

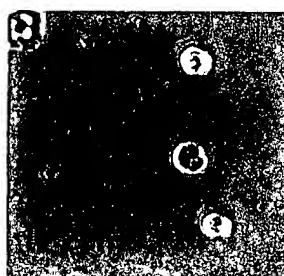


9D CELLS

CONTROL



APO-2L



ANTI-APO-1

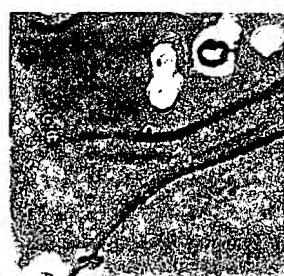


FIG. 2A